## Syllabus, CHEM212/214, Organic Chemistry II

## Description of course:

Chemistry 212, Organic Chemistry II, will continue to introduce the foundations of organic chemistry picking up where CHEM 211 left off. We will focus on structure, mechanism, reactivity and characterization of simple organic compounds. The course will cover all, or selected parts, of chapters 15-28 of Loudon's Organic Chemistry.

**Instructor:**

Prof. Han Xiao (email: han.xiao@rice.edu, office: BRC317, phone: x8239)*

**Discussion Leaders:**

Dr. Michelle Gilbertson (michelle.l.gilbertson@rice.edu, office: DBH 146, phone: x2357)*

Dr. Lesley O'Leary (lr5@rice.edu)*

**Classroom Coordinator:**

Anita Walker (aawalker@rice.edu, office: DBH 243, phone: x4027)

**Teaching Assistants:**

* If you send me a question by e-mail, I will do my best to respond to your questions within 72 hours. Instead of responding to your e-mail, I may address your question in class or send a response to the whole class. For detailed questions, I may invite you to make an appointment to address the question, or come to office hours.

** If you would like to make an appointment to see me, please email me. In your message, include three suggested meeting times. I will email you back with my availability.

## Time and Location:

Lectures: Tuesday and Thursday from 10:50am - 12:05pm in TBA.

Discussion Sections: There is an additional, required, discussion section that will be held on Monday.

| | | | |
|---|---|---|---|
| Section 1: | Dr. Gilbertson | Monday 8:00 – 8:50am | TBA |
| Section 2: | Dr. Gilbertson | Monday 11:00 – 11:50am | TBA |
| Section 3: | Dr. O'Leary | Monday 11:00 – 11:50am | TBA |
| Section 4: | Dr. Gilbertson | Monday 1:00 – 1:50pm | TBA |
| Section 5: | Dr. O'Leary | Monday 1:00 – 1:50pm | TBA |
| Section 6: | Dr. O'Leary | Monday 2:00 – 2:50pm | TBA |
| Section 8: | Dr. Gilbertson | Monday 9:00 – 9:50am | TBA |
| Section 9: | Dr. O'Leary | Monday 10:00 – 10:50am | TBA |

## Office Hours:

Prof. Xiao: TBA

Dr. Gilbertson: TBA

Dr. O'Leary: TBA

Additional times with any of the above can be arranged by email.

## Text Book:

We will use Organic Chemistry 6th Ed. and the associated solutions manual by Marc Loudon and Jim Parise. We will cover chapters 15-28. If the campus store is out of stock you can buy a copy at Amazon.com and a number of other online book stores. Also useful are the HGS Polyhedron Molecular Model #1003α (Alpha) Organic Chemistry Basic Set.

## Slides:

After each lecture the PDF version of the slide will be posted on CANVAS.

## Discussion:

Discussion problem sets, solutions, and review material will be posted on CANVAS on a regular basis.

## Grades:

Grades will consist of three 100 point exams, one 200 point cumulative final and 50 points for attendance and participation in discussion sections for a total of 550 points. See below for dates of exams all of which have already been scheduled. No grades will be dropped. Assigned homework and discussion section problem sets will not be graded but do indicate the most important topics and those which will most likely be covered on exams. Make-up exams will only be offered for students with legitimate excuses as determined by Prof. Xiao. Letter grades will be assigned from numerical grades.

Your exam and discussion section grades will be available on CANVAS.

## Exams:

Exams will not be in class. Instead exams will take place on the following dates and times. Please make note of these dates and times now to avoid scheduling conflicts. Locations will be announced immediately preceding the exams.

Exam 1: Wednesday February 12th, 7:00 – 9:00pm
Exam 2: Wednesday March 11th, 7:00 – 9:00pm
Exam 3: Wednesday April 8th, 7:00 – 9:00pm
Final: TBA

The comprehensive final exam will be scheduled by the registrar's office. Do not make holiday travel arrangements that take you out of town prior to the final.

## Examination Rules:

1) Please bring nothing with you to the exam other than writing utensils. You do not need, nor is it permitted to use, a calculator, or any another other electronic device of any type during the exam for any reason. This includes phones, music players of any sort, and/or headphones. If you have brought bags, books or other items with you to the exam room, please leave them at the front of the room where you can retrieve them after the exam is completed. Time will be announced when there is 1 hour, 30 minutes, 15 minutes, 5 minutes and 1 minute remaining so you will not need any time keeping devices.

2) If you absolutely must leave the exam room to use the restroom, you must print and sign your name and indicate the time you left as well as the time you return. Bathroom breaks are limited to one per student per exam and you must sign out and back in with the student assistant present during the exams. While outside the exam room, all of the normal exam rules still apply including, but not limited to: a) you may not talk with anyone regarding the exam, b) you may not consult with written or electronic notes or the internet, c) you may not use electronic devices of any kind for any reason. Only one student will be permitted to leave the exam room at any time. As always, the Rice Honor Code is enforced during the entire examination.

3) Scratch paper will be provided with your examination. You are not permitted to use your own.

4) Please seat yourselves with a space between you and your nearest neighbor.

5) Upon completing and turning in your exam, you must sign in your exam with the time.

6) ***Make-up exams are strongly discouraged*** *but if you have a medical or other reason why these arrangements are likely to cause a problem for you, please contact Prof. Xiao at least 24 hours before*

*the exam. Only the following reasons are valid for missing an exam: participation in a University athletic event, personal catastrophes such as hospitalization, severe illness with written physician's excuse (not ordinary colds), car accidents, and close family deaths.* ***No early make-up exams will be given; therefore, do not ask.***

## Re-grades of Exams:

You have one week from the time that an exam is handed back to request a regrade. If you feel there has been an error in grading you should write, on a separate piece of paper, the corrections you feel are needed, staple this to your **original and unaltered exam** and submit them together to Anita Walker. *Note that if you desire a re-grade, do not write anything new on your exam or erase anything old. Hand it back for a re-grade just as you received it. Simply write, on a separate piece of paper(!), the corrections you feel are needed, and staple them to the exam. Then submit it all to Anita Walker within the one week re-grade return period.* Please note that since the entire exam will be re-graded, it is possible that your exam score will go **down** rather than up.

*Please remember that according to Rice's Honor Code "... it is the student's responsibility to understand how the Honor System applies to each individual assignment and any questions should be raised with the instructor before submitting the assignment." In other words: if you have any questions about the rules concerning examinations it is your responsibility to clarify the issue in advance of the examination.*

## Disability Support Services:

If you have a documented disability or other condition that may affect academic performance you should: 1) make sure this documentation is on file with Disability Support Services (Allen Center, Room 111 / adarice@rice.edu / x5841) to determine the accommodations you need; and 2) contact Dr. Gilbertson (michelle.l.gilbertson@rice.edu) to discuss your accommodation needs within the first week of class.

## Disclaimer:

The instructor reserves the right to alter the course requirements, schedule, and/or assignments based on new materials, class discussions, or other legitimate pedagogical objectives. Students will be given notice of relevant changes in class, on CANVAS, or via email.

**CHEM212, Organic Chemistry II** (Dates may change over the course of the semester)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | **First day of classes** | Lecture 1: Chapter 15 | | Lecture 2: Chapter 15 | | **JANUARY** |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | MLK Day | Lecture 3: Chapter 15 | | Lecture 4: Chapter 16 | | |
| 26 | 27 | 28 | 29 | 30 | 31 | 1 |
| | Discussion 1 | Lecture 5: Chapter 16 | | Lecture 6: Chapter 17 | | **FEBRUARY** |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Discussion 2 | Lecture 7: Chapter 17 | | Lecture 8: Chapter 18 | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | Discussion 3 | Lecture 9: Chapter 18 | **Exam 1: Ch 15-17** | Spring | Recess | |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | Discussion 4 | Lecture 10: Chapter 19 | | Lecture 11: Chapter 19 | | |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | Discussion 5 | Lecture 12: Chapter 19 | | Lecture 13: Chapter 20 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Discussion 6 | Lecture 14: Chapter 20 | | Lecture 15: Chapter 21 | | **MARCH** |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | Discussion 7 | Lecture 16: Chapter 21 | **Exam 2: Ch 18-20** | Lecture 17: Chapter 22 | | |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | | Spring | | Break | | |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Discussion 8 | Lecture 18: Chapter 22 | | Lecture 19: Chapter 23 | | |
| 29 | 30 | 31 | 1 | 2 | 3 | 4 |
| | Discussion 9 | Lecture 20: Chapter 23 | | Lecture 21: Chapter 24 | | **APRIL** |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | Discussion 10 | Lecture 22: Chapter 26 | **Exam 3: Ch 21-24** | Lecture 23: Chapter 26 | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | Discussion 11 | Lecture 24: Chapter 28 | | Lecture 25: Chapter 28 | | |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | Discussion 12 | Lecture 26: Chapter 27 | | Lecture 27: Review | **Last day of classes** | |
| 26 | 27 | 28 | 29 | 30 | 1 | 2 |
| | **Study Day** | **Study Day** | Finals | Finals | Finals | **MAY** |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | Finals | Finals | Finals | | | |